



RADCOLUBE® 17111

Safety Data Sheet

MIL-PRF-17111F Power Transmission Fluid

Issue date: 6/2/2015

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Version: 6.0

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification

1.1. Identification

Trade name: RADCOLUBE® 17111
Specification: MIL-PRF-17111F Power Transmission Fluid
NATO Code: H-575
National Stock Number(s) (NSN): 9150-00-261-8317 5-Gallon Pails
9150-00-261-8318 55-Gallon Drums

1.2. Recommended use and restrictions on use

Use of the substance/mixture: Lubricant
Hydraulic fluids and additives
Recommended use: Lubricants, Greases and Release Products

1.3. Supplier

Manufacturer

Radco Industries Inc.
CAGE Code 6ZS16
700 Kingsland Drive
Batavia, Illinois 60510
United States
T (630) 232-7966
www.radcoind.com

1.4. Emergency telephone number

Emergency number: For Chemical Emergency Call CHEMTREC 24hr/day 7days/week
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-741-5970
(collect calls accepted)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin sensitization, Category 1 H317 May cause an allergic skin reaction
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US):



Signal word (GHS US):

Warning

Hazard statements (GHS US):

H317 - May cause an allergic skin reaction

Precautionary statements (GHS US):

P261 - Avoid breathing fume, mist, spray, vapors.

P272 - Contaminated work clothing must not be allowed out of the workplace.

P280 - Wear eye protection, face protection.

P302+P352 - If on skin: Wash with plenty of soap and water.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/container to an approved waste disposal plant.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Distillates (petroleum), hydrotreated middle (Base Oil)	CAS-No.: 64742-46-7	> 65	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light paraffinic (Base Oil)	CAS-No.: 64742-55-8	0 – 10	Acute Tox. 4 (Inhalation:dust,mist), H332
Distillates (petroleum), hydrotreated heavy paraffinic (Base Oil)	CAS-No.: 64742-54-7	0 – 10	Not classified
Distillates (petroleum), hydrotreated light naphthenic (Base Oil)	CAS-No.: 64742-53-6	1 – 10	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light (Base Oil)	CAS-No.: 64742-47-8	0.1 – 5	Flam. Liq. 3, H226 Asp. Tox. 1, H304
Trade Secret* (Additive)	CAS-No.: Trade Secret	Trade Secert	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 1, H410

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation:	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact:	Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact:	Rinse eyes with water as a precaution.
First-aid measures after ingestion:	Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact:	May cause an allergic skin reaction.
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4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Water spray. Dry powder. Foam. Carbon dioxide.
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5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures:	Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
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6.1.2. For emergency responders

Protective equipment:	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up:	Take up liquid spill into absorbent material.
Other information:	Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Precautions for safe handling:

Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.

Hygiene measures:

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:

Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

RADCOLUBE® 17111	
No additional information available	
Distillates (petroleum), hydrotreated middle (64742-46-7)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Mineral oil, excluding metal working fluids Pure, highly and severely refined
ACGIH OEL TWA	5 mg/m ³ (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Limits	
Local name	Petroleum distillates (Naphtha)(Rubber Solvent)
OSHA PEL TWA [1]	2000 mg/m ³
OSHA PEL TWA [2]	500 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Mineral oil, excluding metal working fluids Pure, highly and severely refined
ACGIH OEL TWA	5 mg/m ³ (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	5 mg/m ³ 8 Hours. Form: inhalable

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USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA [1]	5 mg/m ³ 8 Hours
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	5 mg/m ³ 15 Hours. Form: mist
NIOSH REL STEL	10 mg/m ³ 15 minutes. Form: mist

Trade Secret
No additional information available

Distillates (petroleum), hydrotreated light (64742-47-8)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Mineral oil, excluding metal working fluids Pure, highly and severely refined
ACGIH OEL TWA	5 mg/m ³ (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)
No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.
Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Appearance:	Liquid.
Color:	light yellow
Odor:	Petroleum-like odor
Odor threshold:	No data available
pH:	No data available
Melting point:	Not applicable
Freezing point:	≤ -63 ASTM D97 Pour point
Boiling point:	No data available
Flash point:	≥ 104 °C (ASTM D92 Cleveland Open Cup Method)
Relative evaporation rate (butyl acetate=1):	No data available
Flammability:	Not applicable.
Vapor pressure:	No data available
Relative vapor density at 20°C:	No data available
Relative density:	No data available
Density:	7.27 lb/gal at 15.6°C
Solubility:	Insoluble in water.
Partition coefficient n-octanol/water (Log Pow):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	≥ 25 mm ² /s at 40°C (104°F)
Viscosity, dynamic:	No data available
Explosion limits:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity**10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral):	Not classified
Acute toxicity (dermal):	Not classified
Acute toxicity (inhalation):	Not classified
Skin corrosion/irritation:	Not classified
Carcinogenicity:	Not classified.
Aspiration hazard:	Not classified
Viscosity, kinematic:	≥ 25 mm ² /s at 40°C (104°F)
Symptoms/effects after skin contact:	May cause an allergic skin reaction.
STOT-single exposure:	Not classified
STOT-repeated exposure:	Not classified
Reproductive toxicity:	Not classified

Distillates (petroleum), hydrotreated middle (64742-46-7)

LD50 oral rat:	> 5000 mg/kg body weight (OECD 401 method)
LD50 dermal rabbit:	> 2000 mg/kg body weight (OECD 402 method)

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

LD50 oral rat:	> 5000 mg/kg body weight (OECD 420 method)
LD50 dermal rabbit:	> 2000 mg/kg IUCLID reference substance
ATE US (dust, mist):	2.18 mg/l/4h

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

LD50 oral rat:	> 5000 mg/kg body weight (OECD 401 method) (OECD 420 method)
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LD50 oral rat:	1625 mg/kg body weight (male)
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LD50 dermal rabbit:	> 5000 mg/kg body weight (male)
ATE US (oral):	1625 mg/kg body weight

Distillates (petroleum), hydrotreated light (64742-47-8)

LD50 oral rat:	> 5000 mg/kg body weight (OECD 420 method)
LD50 dermal rabbit:	> 2000 mg/kg body weight (OECD 402 method)
LC50 Inhalation - Rat:	> 5.28 mg/l/4h (OECD 403 method)

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)

LD50 oral rat:	> 5000 mg/kg body weight (OECD 420 method)
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Distillates (petroleum), hydrotreated middle (64742-46-7)

Serious eye damage/irritation:	Not classified
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Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

Serious eye damage/irritation:	Not classified
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Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Serious eye damage/irritation:	Not classified
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Serious eye damage/irritation:	Not classified
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Distillates (petroleum), hydrotreated light (64742-47-8)

Serious eye damage/irritation:	Not classified
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Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)

Serious eye damage/irritation:	Not classified
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Distillates (petroleum), hydrotreated middle (64742-46-7)

Respiratory or skin sensitization:	May cause an allergic skin reaction.
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Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

Respiratory or skin sensitization:	May cause an allergic skin reaction.
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Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Respiratory or skin sensitization:	May cause an allergic skin reaction.
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Respiratory or skin sensitization:	May cause an allergic skin reaction.
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Distillates (petroleum), hydrotreated light (64742-47-8)

Respiratory or skin sensitization:	May cause an allergic skin reaction.
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Respiratory or skin sensitization:	May cause an allergic skin reaction.
Distillates (petroleum), hydrotreated middle (64742-46-7)	
Germ cell mutagenicity:	Not classified
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
Germ cell mutagenicity:	Not classified
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Germ cell mutagenicity:	Not classified
Trade Secret	
Germ cell mutagenicity:	Not classified
Distillates (petroleum), hydrotreated light (64742-47-8)	
Germ cell mutagenicity:	Not classified
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
Germ cell mutagenicity:	Not classified
Distillates (petroleum), hydrotreated middle (64742-46-7)	
NOAEL (animal/male, F0/P):	≥ 3000 mg/kg body weight
Trade Secret	
NOAEL (animal/male, F0/P):	< 40 mg/kg body weight Test method EU B.35
NOAEL (animal/female, F0/P):	< 46 mg/kg body weight Test method EU B.35
Distillates (petroleum), hydrotreated light (64742-47-8)	
NOAEL (animal/male, F0/P):	≥ 3000 mg/kg body weight
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
LOAEL (oral,rat,90 days):	125 mg/kg body weight (OECD 408 method)
NOAEC (inhalation,rat,dust/mist/fume,90 days):	> 0.98 mg/l Air (OECD 412 method)
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LOAEL (oral,rat,90 days):	125 mg/kg body weight (OECD 408 method)
NOAEC (inhalation,rat,dust/mist/fume,90 days):	> 0.98 mg/l Air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
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LOAEL (oral,rat,90 days):	20 mg/kg body weight (OECD 407 method)

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NOAEL (oral,rat,90 days):	80 mg/kg body weight (OECD 407 method)
STOT-repeated exposure:	May cause damage to organs through prolonged or repeated exposure.
Distillates (petroleum), hydrotreated light (64742-47-8)	
NOAEL (oral,rat,90 days):	750 mg/kg body weight female)
NOAEC (inhalation,rat,vapor,90 days):	≥ 0.024 mg/l Air (OECD 412 method)
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
LOAEL (oral,rat,90 days):	125 mg/kg body weight (OECD 408 method)
NOAEL (dermal,rat/rabbit,90 days):	1000 mg/kg body weight (OECD 410 method)

SECTION 12: Ecological information**12.1. Toxicity**

Ecology - general:

The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Distillates (petroleum), hydrotreated middle (64742-46-7)	
LC50 - Fish [1]:	1.2 mg/l Species: Oncorhynchus mykiss (Rainbow trout), 21 days
EC50 - Crustacea [1]:	2.9 mg/l Species: Daphnia magna (Water flea), 96 Hours
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
LC50 - Fish [1]:	> 5000 mg/l IUCLID reference substance
EC50 - Crustacea [1]:	> 1000 mg/l (IUCLID reference substance)

Trade Secret	
LC50 - Fish [1]:	0.44 mg/l (Species: Oncorhynchus mykiss (Rainbow trout))
EC50 - Crustacea [1]:	0.3 mg/l EC50 48h - Daphnia magna [mg/l]
ErC50 algae:	0.93 mg/l (Species: Pseudokirchneriella subcapitata; 96 Hours, Freshwater)
LOEC (chronic):	0.1 mg/l Species: Daphnia magna (Water flea); 21 days

12.2. Persistence and degradability

Trade Secret	
Persistence and degradability:	Not readily biodegradable in water.

12.3. Bioaccumulative potential

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
Partition coefficient n-octanol/water (Log Pow):	3.9 – 6 IUCLID reference substance

Trade Secret	
BCF - Fish [1]:	427 – 2730 (OECD 305 method)
Partition coefficient n-octanol/water (Log Pow):	4.28 Experimental data
Bioaccumulative potential:	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

12.4. Mobility in soil

Trade Secret	
Surface tension:	No data available
Organic Carbon Normalized Adsorption Coefficient (Log Koc):	3.227 (QSAR Source: PCKOCWIN v2.0)
Ecology - soil:	Low potential for mobility in soil.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods: Dispose of contents/container in accordance with licensed collector’s sorting instructions.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA / ICAO / ADN / RID / ADG

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT): Not applicable
 Proper Shipping Name (TDG): Not applicable
 Proper Shipping Name (IMDG): Not applicable
 Proper Shipping Name (IATA): Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT): Not applicable

TDG

Transport hazard class(es) (TDG): Not applicable

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IMDG

Transport hazard class(es) (IMDG): Not applicable

IATA

Transport hazard class(es) (IATA): Not applicable

14.4. Packing group

Packing group (DOT): Not applicable

Packing group (TDG): Not applicable

Packing group (IMDG): Not applicable

Packing group (IATA): Not applicable

14.5. Environmental hazards

Other information: No supplementary information available.

14.6. Special precautions for user**DOT**

No data available

TDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information**15.1. US Federal regulations**

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Distillates (petroleum), hydrotreated middle	64742-46-7	Present	Active	
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	Present	Active	
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Present	Active	
Trade Secret		Present	Active	
Distillates (petroleum), hydrotreated light	64742-47-8	Present	Active	

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Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	Present	Active	
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This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations**CANADA****Distillates (petroleum), hydrotreated middle (64742-46-7)**

Listed on the Canadian DSL (Domestic Substances List)

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

Listed on the Canadian DSL (Domestic Substances List)

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Listed on the Canadian DSL (Domestic Substances List)

Trade Secret

Listed on the Canadian DSL (Domestic Substances List)

Distillates (petroleum), hydrotreated light (64742-47-8)

Listed on the Canadian DSL (Domestic Substances List)

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations**Distillates (petroleum), hydrotreated middle (64742-46-7)**

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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Trade Secret
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Distillates (petroleum), hydrotreated light (64742-47-8)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

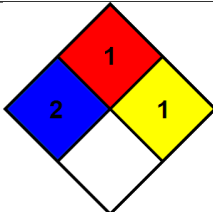
California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Full text of H-phrases	
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects

NFPA health hazard	2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.	
NFPA fire hazard	1 - Materials that must be preheated before ignition can occur.	
NFPA reactivity	1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.	

Hazard Rating	
Health	2 Moderate Hazard - Temporary or minor injury may occur
Flammability	1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

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This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular process or for any particular purpose. Such information stated is to the best of Radco's knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made to its accuracy, reliability, or completeness, purchasers, users and distributors are not relying on any promise, representation, or recommendation made by Radco, and Radco does not accept liability for any loss or damage that may occur from the use of this information. Final determination of suitability of any material is the sole responsibility of the user. All material should be used with caution to guard against unknown hazards. Although certain hazards are described herein, Radco does not guarantee that these are the only hazards that exist.